



Product Brief

Intel® RAID Controller
SRCAS144E

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A High Performance, Mid-Range PCI-E SAS RAID Controller



Product Overview

Outstanding Performance and Reliability at a Low Cost

Growing businesses need improved storage systems for ever-expanding data and information. Increased reliability of critical systems, keeping a database online regardless of failures, data loss prevention, and accelerated access to information are critical needs for business success today. In addition, improved performance and scalability are required to help meet expanding needs and provide a flexible approach to system management.

The Intel® RAID Controller SRCAS144E is a low profile card that addresses both internal and external storage requirements while providing point-to-point connections for greater performance and reliability. With support for both Serial ATA (SATA) and Serial Attached SCSI (SAS) devices, this controller gives businesses the ability to customize RAID solutions.

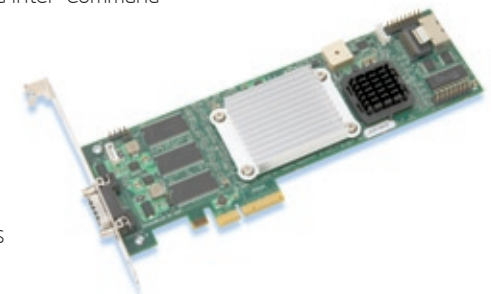
A standardized server and storage infrastructure helps lower the total cost of ownership. The SAS interface provides universal interconnect with Serial ATA, while still offering logical SCSI compatibility. In addition, this design delivers the reliability, performance and manageability available in SAS drives.

The Intel RAID Controller SRCAS144E supports RAID 0, 1, 5, 10, and 50 and enclosure management simplifies long-term server operation and maintenance. Auto rebuild, remote Web-based management of the RAID array through the Intel® RAID Web Console 2 utility, and both online capacity expansion and RAID-level migration make this an ideal solution for easier IT management. The controller provides seamless upward migration from Software RAID up through Intelligent RAID solutions, and will support RAID 6 post-launch.

Next-generation management capabilities include extensive automation and an intuitive user interface. The Intel RAID Controller SRCAS144E ships with the Intel® RAID BIOS Console 2, Intel® RAID Web Console 2, and Intel® Command Line Utilities.

Key Advantages

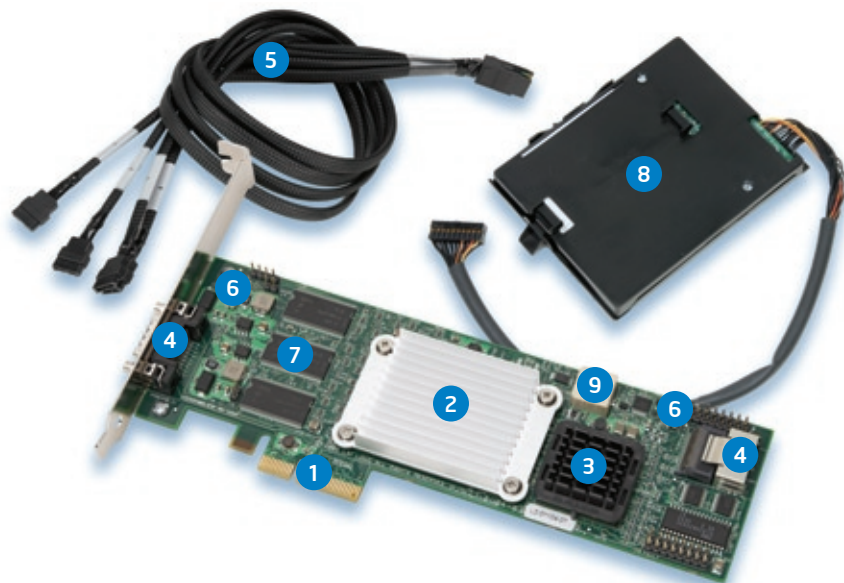
- Industry-proven RAID data protection
- High performance workstations and mid- to high-end servers
- External and internal storage connection
- Flexibility for both SAS and SATA drives
- Low profile



Features and Benefits

Intel® RAID Controller SRCAS144E

- 1 PCI Express* connection
- 2 Intel® IOP333 at 500 MHz
- 3 LSI 1068 3.0 Gb/s SAS/SATA I/O controller
- 4 Four internal and four external SAS/SATA ports
- 5 Supports up to 255 devices via expanders
- 6 SAF-TE, SES, SGPIO enclosure management support
- 7 128 MB embedded memory
- 8 Intel® RAID smart battery
- 9 Audible alarm
- 10 Low profile



Technical Specs

Form Factor	Low profile PCI: 7.71" x 2.535" (196 mm x 64 mm)
Availability	Auto hot-spare, auto rebuild, drive roaming, controller migration, online capacity expansion, remote monitoring and management
Manageability	Intel® RAID BIOS Console 2, Intel® RAID Web Console 2, Intel® Command Line Utilities
Configurability	Variable stripe size, variable cache options, drive coercion, array spanning, variable rebuild rate
Status Indicators	Audible alarm, 12C (for enclosure management)
Ambient Temperature	Operating (dry bulb): 0°C to 45°C
Regulatory Compliance	Integration with a validated Intel® server board and configuration as outlined in the Intel® RAID Controller SRCAS144E Hardware Guide for the following countries or regions: Australia/New Zealand, Canada, Europe, International, Japan, Taiwan, United States

Operating system support is contingent on the operating-system support of the motherboard in which the controller is installed. For information on the latest operating system support, visit: <http://support.intel.com>.

Drivers and utilities for Microsoft Windows* Server 2003 Enterprise Edition, Microsoft Windows* 2000 Advanced Server, Microsoft Windows* XP, Red Hat* Enterprise Linux* 3 and 4, SUSE LINUX* Enterprise Server 9

For more details on the Intel® RAID Controller SRCAS144E please see: support.intel.com/support/motherboards/server/srcsas144e

To build your system and get more details on Intel server configurations visit: www.intel.com/go/serverconfigurator

For more information on how to make the Intel® RAID Controller SRCAS144E part of your server environment, please contact an Intel® Channel Partner Program participant.

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